

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/06292

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 13/12; G06K 9/36, 9/46

US CL : 710/1, 68; 382/236, 238, 239

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 710/1, 68; 382/236, 238, 239

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 IEEE Explore

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,363,117 B1 (KOK) 26 March 2002, column 1, lines 47-67; column 2, lines 1-30; column 3, lines 40-61; column 4, lines 30-44; column 6, lines 35-50	1, 2, 13 and 14
—		
Y		3 and 15
Y, E	US 6,757,330 B1 (HSU) 29 June 2004, column 3, lines 44-63; column 4, lines 66-67; column 5, lines 1-65	3 and 15
A	US 6,563,874 B1 (LU) 13 May 2003, see entire document	4-12 and 16-20
A	US 6,269,174 B1 (KOBAYASHI et al) 31 July 2001, see entire document	1-20

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

19 July 2004 (19.07.2004)

Date of mailing of the international search report

06 AUG 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Jeffrey A. Gaffin

Telephone No. 703-305-3900